This Page Is Inserted by IFW Operations and is not a part of the Official Record

BEST AVAILABLE IMAGES

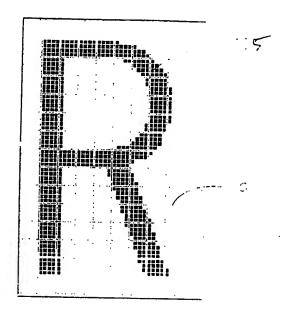
Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

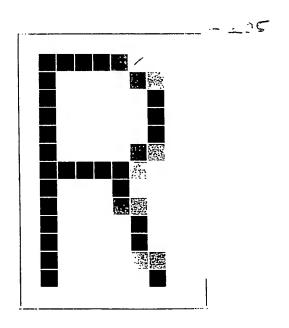
- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

As rescanning documents will not correct images, please do not report the images to the Image Problem Mailbox.

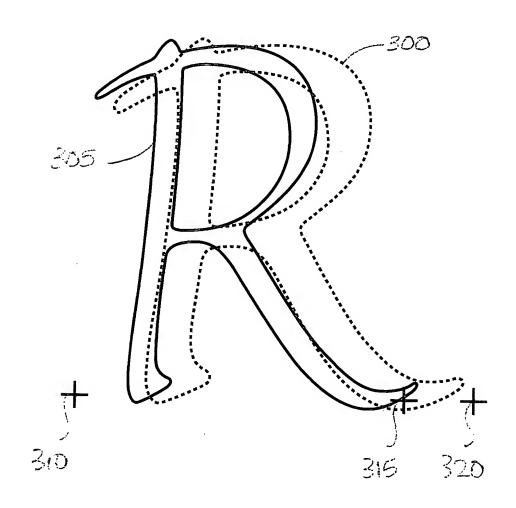


F16 1



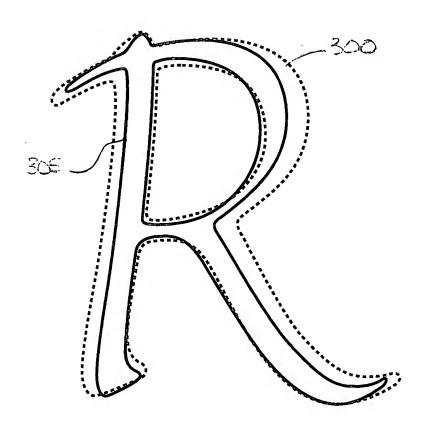
F16.2

Page 2 of 34

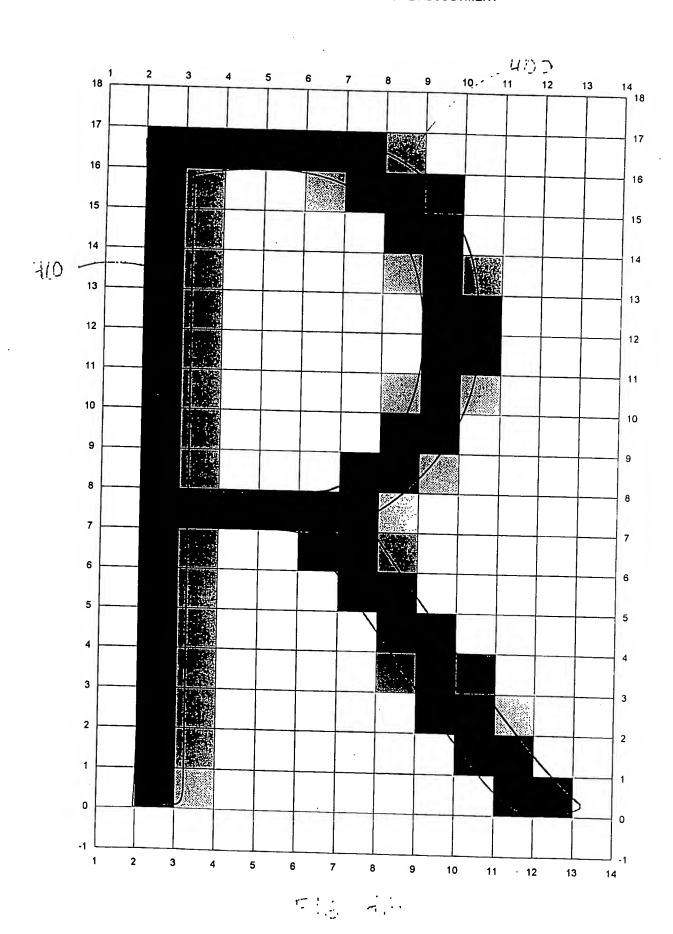


FIE 3A

Page 3 of 34



F16 38



Matter No.: 07844-636001

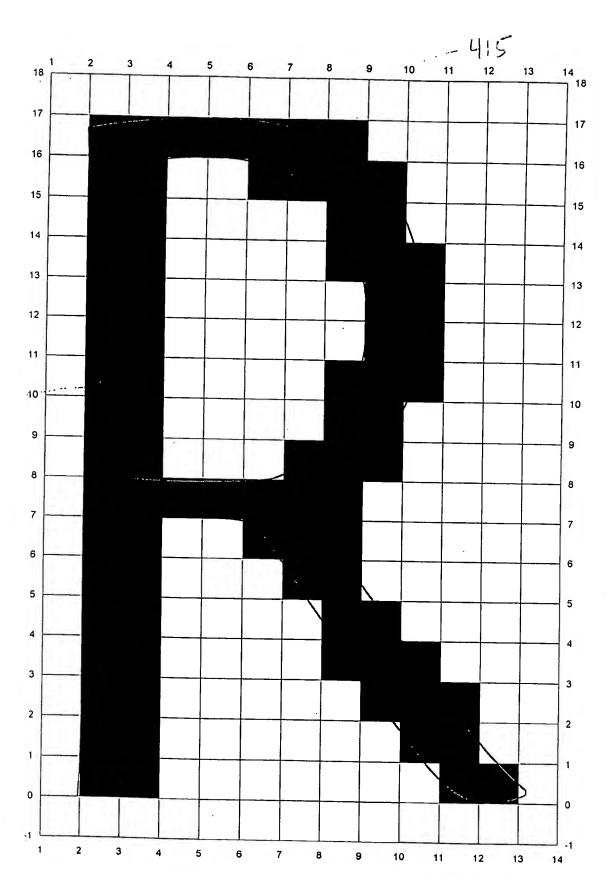
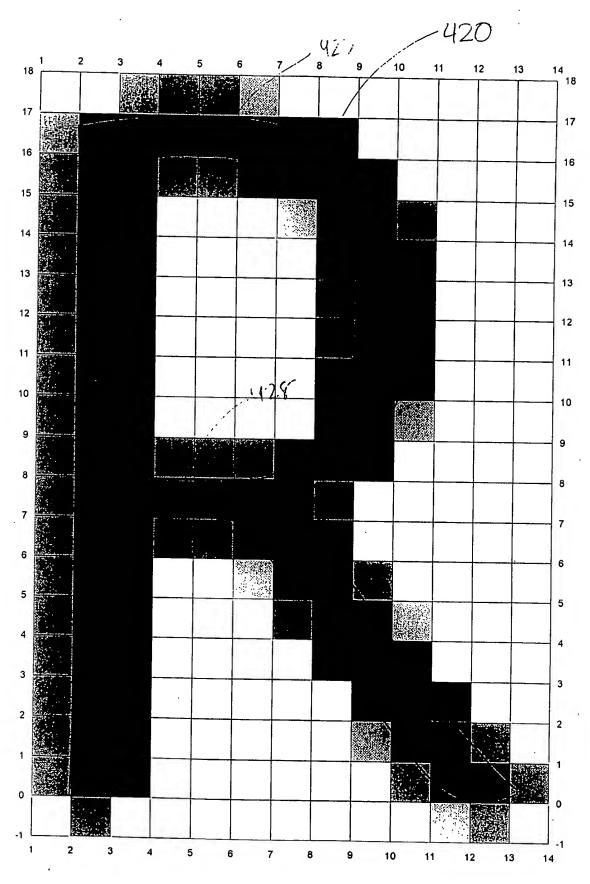


FIG 4



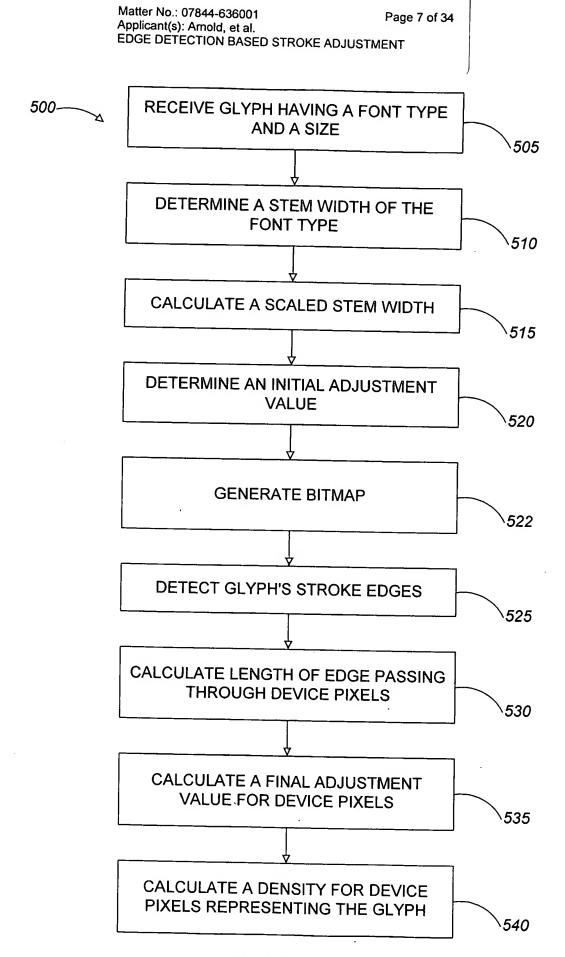
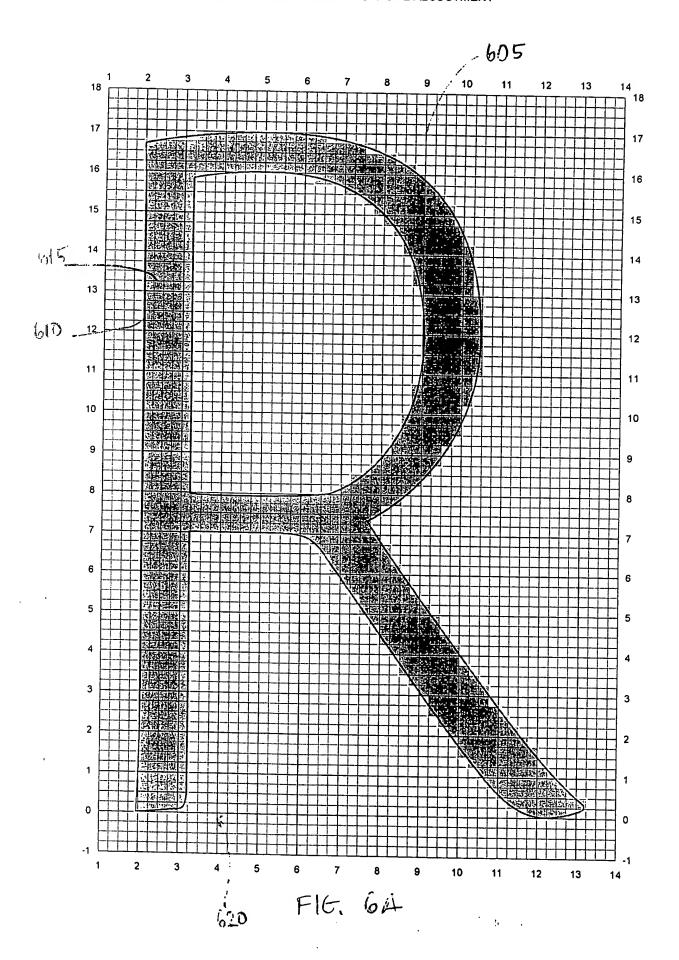
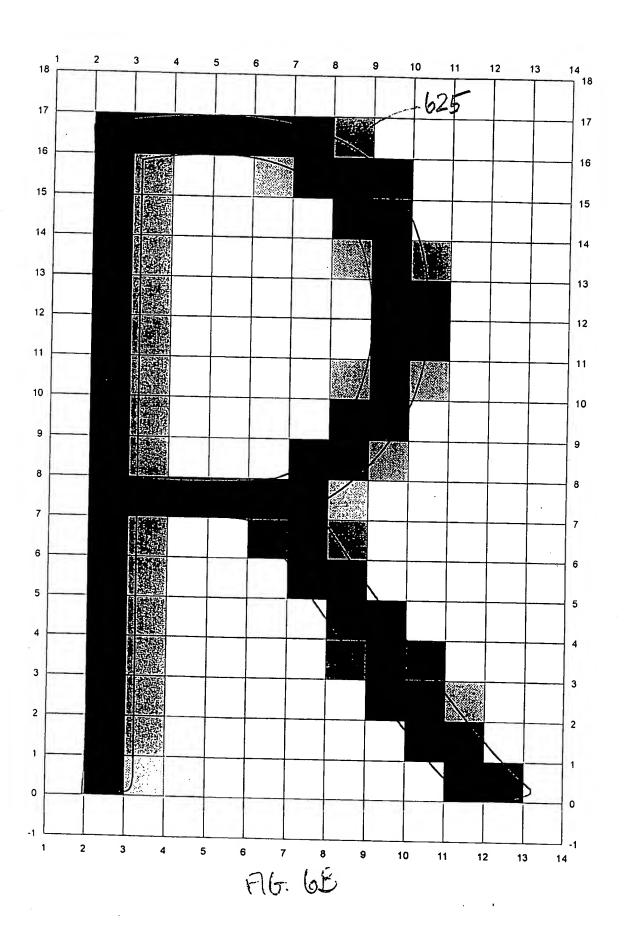


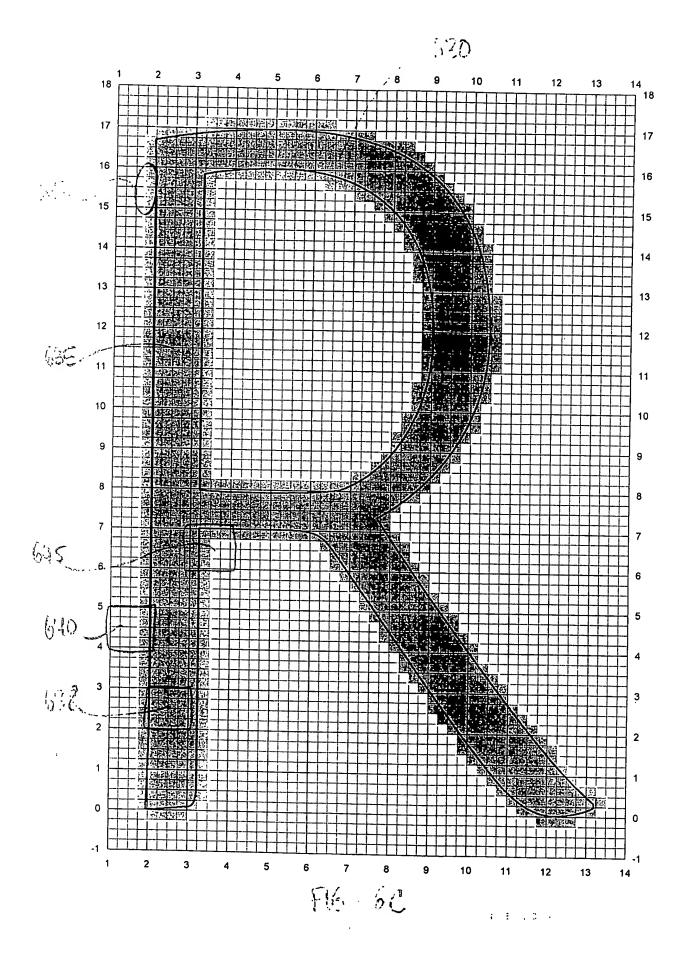
FIG. 5

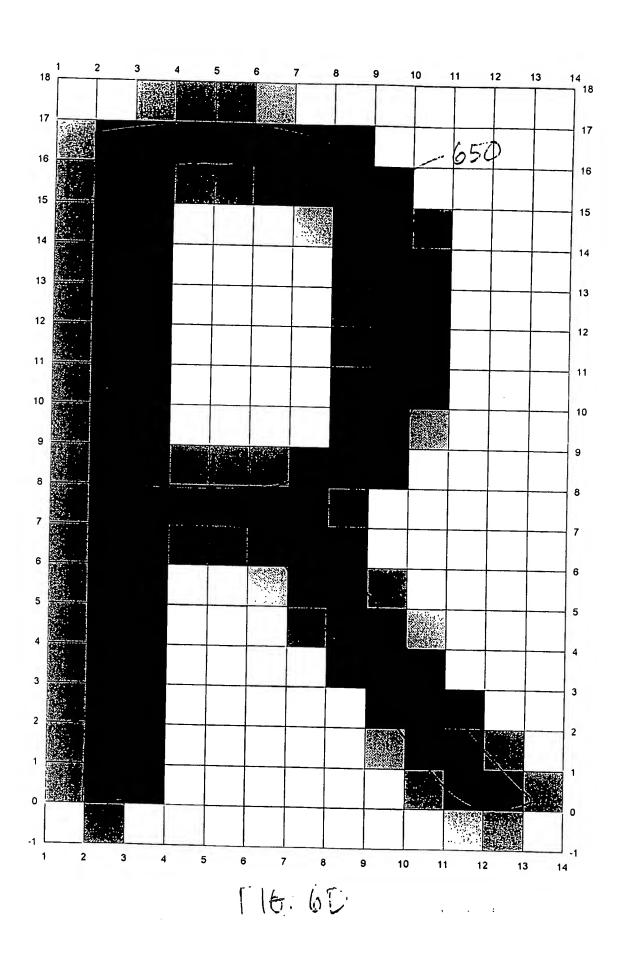


Matter No.: 07844-636001



Matter No.: 07844-636001 Page 10 of 34





Matter No.: 07844-636001

Page 12 of 34

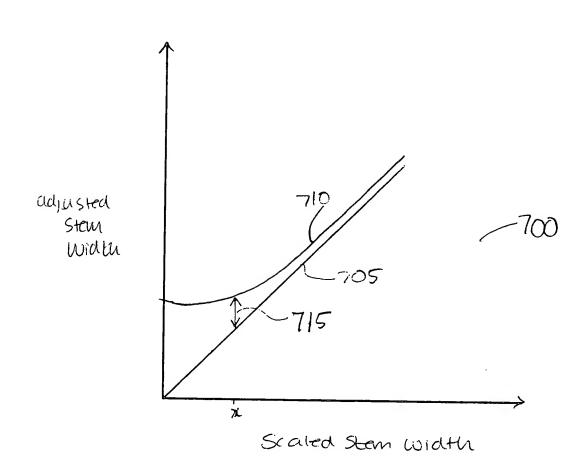
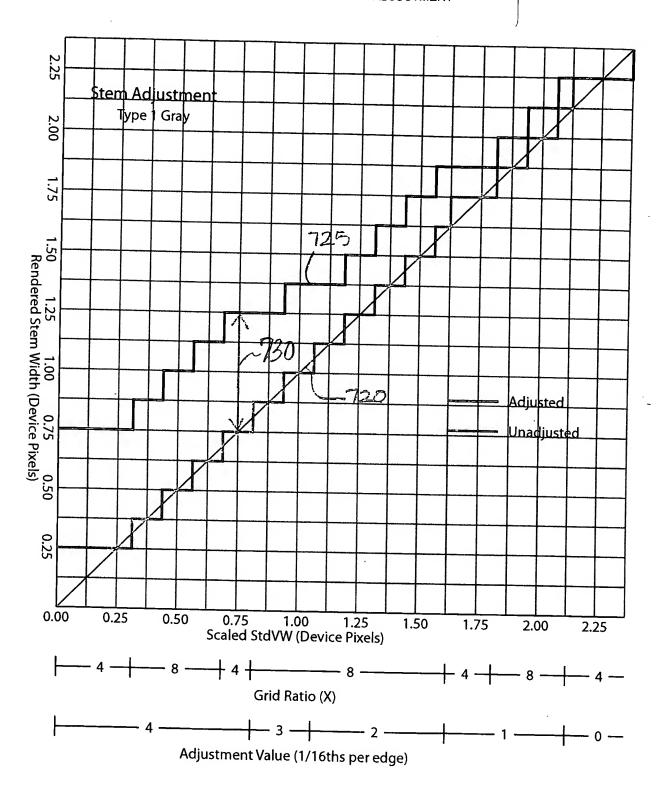


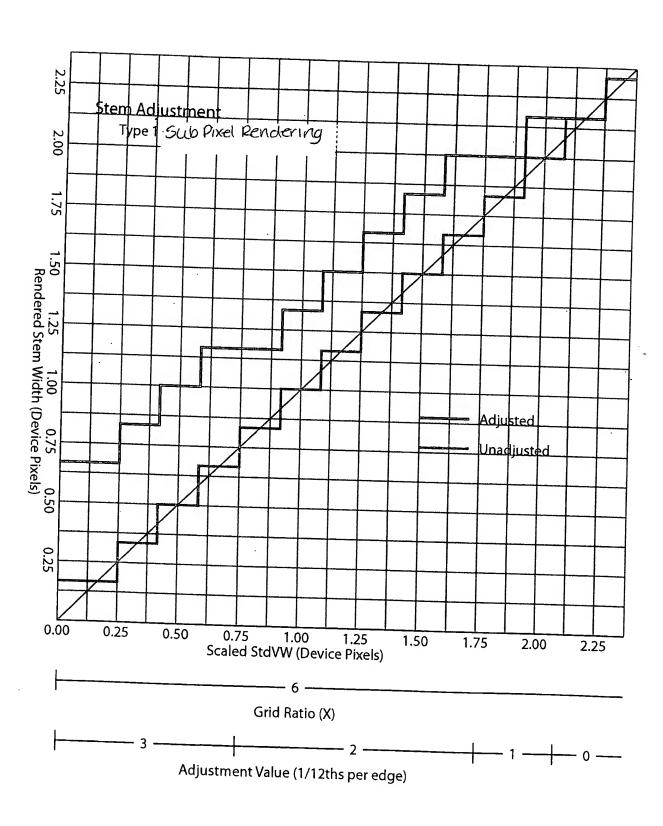
FIG 7A

Page 13 of 34



F16. 7B

EDGE DETECTION BASED STROKE ADJUSTMENT



F16. 7C

			mont																											
	1322	Taitin	Adinet	Value	$(1/16^{\text{ths}})$	4	4	4	4	4	4	4	4	4	. 4	4	4	4		9 6	0 60) ("		1 0	1 0	1 0	1 0	7 0	2 2	2
)	880	\ \ \ \	Carry	(y/n)																										
\$	9	X	Carry	(y/n)		-											0	1 0			-11				1			1 -		1
	316	^	Offset	Amt.		1	1	1	1		-				-	-	1	-								, , , ,			1	1
,	400	X Offset	Amt.			0	0	0	0	0	0	0	0	0	0	0	1		1											
	7	\vdash	Align.			4	4	4	4	4	∞	8	~		~		4	4	∞	8	∞	8	8	8	8	8	0	8	8	8
	8	×	Align.)		4	4	4	4	4	∞	8	~	∞	∞	∞	4	4	∞	8	8	~	∞	~	8	∞	~	∞	8	8
	608	Hinting	Policy			Black Edge																								
v Scale	908	Hint	Grid	Ratio	-	4	4	4	4	4	8	∞	8	8	8	8	4	4	8		8	8	8	8	8	8	8	8		∞
oe 1 Gre	306		Grid	Ratio	-	4	4	4	4	4	∞	∞	&	&	8	8	4	4	∞	8	8	8	8	8	8	8	8	8	8	8
vpe: Tyl	802 804 806 808	×	Grid	Ratio		1.	4	4	4	4	∞	∞	8	∞	8	8	4	4	∞	∞	8	8	8	8	8	%	%	8	8	8
Font ty	202	Scaled	Stem	Width	0 0	9 -	1	2	3	4	5	9	7	∞	6	10	11	. 12	13	14	15	16	17	18	19	20	21	22	23	24
											2003						7	100		1	1	I		1		1	1	1	1,	

Matter No.: 07844-636001 Page Applicant(s): Arnold, et al. EDGE DETECTION BASED STROKE ADJUSTMENT

	٦															_	
909	45.00	Initial Adjustment	Value	(1/10)	1	1 -	1	-	1	1	1 1	1					
i d	070	Y Carry	(v/n)	-	10				-		٠,-	1 -					,
0	0.0	Carry	Amt. (y/n)	-	1 -	-	-	-	-	1	1	4	-		-	-	
S O	000	Offset	Amt.	-	, 0	0	0	<u> </u>	1 -	-		-	(0	0	0	0	
	10 x 10 x	Amt.			0	0	0		-	1		-	0	0	0	0	
্ত		lign.		~	4	4	4	∞	0	0 ∞	∞	0 8	4	4	4	4	
S	O.O.	Align.		∞	4	4	4	8	∞	8	8	8	4	4	4	4	
S	Hinting	Policy		Black Edge	Black Edge	Black Edge	Black Edge	Black Edge	Black Edge	Black Edge	Black Edge	Black Edge					
00 00 00 00 00 00 00 00 00 00 00 00 00		Grid	Ratio	8	4	4	4	&	∞	∞	8	8	4	4	4	4	
55	>	Grid	Ratio	8	4	4	4	8	∞	∞	8	8	4	4	4	4	
d S	X	Grid	Katio	«	4	4	4	8	8	8	8	8	4	4	4	4	
202	Scaled	Stem	Width (1/16 th)	25	26	27	28	29	30	31	32	33	34	35	36	37	

FIG. 8A COM+'d

Page 17 of 34

	90	High Initia	Adjustment	(1/16ths)	0	0	0	0	0	9	9	9	9	9	9	0	0	2	2	2	2	0	0	0	0	0	0	0
	30%	High			0	0	0	0	0	24	24	32	32	40		0	0	56	99		56	0	0	0	0	0	0	0
le	hisk.	Low Initial	Adjustment Value	(1/16ths)	0	0	0	0	0	2	2	2	2	2	2	0	0	4	4	4	4	0	0	0	0	0	0	0
Gray Sca	583	Low	Density		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	8	0	0		0			0
Font type: Type 1 Gray Scale	05 6	Asymmetric	Adjusting D (y/n)		0	0	0	0	0	1	1	1	1		1	0	0		1	1								0
Font tyl		Scaled	Stem	(1/16ths)	0	1	2	3	4	?	9	7	∞ (6	10			13	14	15	16		18					23 (
									9	(1) (1)						,	<u>E</u>											

Page 18 of 34

					_	_	_				_								_
100	High Initial	Adinetment	Volue	(1/16ths)	0	0	2	2	2	0	0	2	2	2	0	0	0	0	なら
828		Density			0	0	12	12	12	56	56	56	56	56	0	0	0	0	FIG. 8B CON+'cl
- T.	Low Initial	Adiustment	Valme	(1/16ths)	0	0	0	0	0	2	2	0	0	0	0	0	0	0	
155	Low '	Density	•		0	0	0	0	. 0	0	0	8	~	16	0	0	0	0	
659	Asymmetric Low	Adjusting	(n/n)		0	0	1	1	1	1	1	1	1	1	0	0	0	0	
	Scaled	Stem	Width	(1/16ths)	24	25	26	27	28	29	30	31	32	33	34	35	36	37	

Matter No.: 07844-636001

Applicant(s): Amold, et al.

EDGE DETECTION BASED STROKE ADJUSTMENT

Initial Adjustment (1/6ths) Value 2 2 2 2 2 2 2 2 2 Hinting Policy Black Edge Carry (y/n) X Carry (y/n) Y X Y Align. Offset Amt. Align. Grid Ratio Ratio Y Grid Grid Ratio 9 9 (1/6ths) Stem Width Scaled ∞

Font Type: Type 1 Sub Rixel Rendering

FIG. 8C



Matter No.: 07844-636001

Applicant(s): Arnold, et al.
EDGE DETECTION BASED STROKE ADJUSTMENT

Adjustment (1/4ths) Value Initial 4 4 4 3 7 Hinting Policy No Smoothing Y Carry X Carry (y/n) Offset Amt. 0 0 0 0 0 0 0 0 X Offset Amt. 0 0 0 00 00000 Align. 0 0 0 0000 Align. 0 0 0 0 0 0000 Hint Grid Ratio 4 4 Ratio Y Grid 4 4 4 4 4 4 4 4 Ratio Grid 4 4 4 4 4 4 4 4 4 4 Scaled (1/4ths) Width Stem 9

Font Type: TrueType Gray Scale

Page 21 of 34

Font Type: TrueType Subpixel Revolening

Hinting Policy Initial Adjustment	value														
		No Smoothing													
Carry (y/n)	-	-],	-				-	7	1	1	-1	1	1	1	
Carry (y/n)	-				_,			-		1			1		
Offset Offset Carry Amt. Amt. (y/n)						ا(د	0	0	0	0	0	0	0	0	_
	0						0 0		0	0 0	0 0	0 0	0 0		
Align.	0)							0 0			0			_
Align.	0	0	,												_
Grid Ratio	9	9	9	9	2	2			0	0		0 4	0 4		_
Grid	9	9	9	9	9	, ,	2		0 4						_ c
Grid	9	9	9	9	9	9	۷	, 4	٧	9		2	2		_
Stem Width (1/6ths)	0	1	2	3	4	5	9	7	~	6	10		12		_

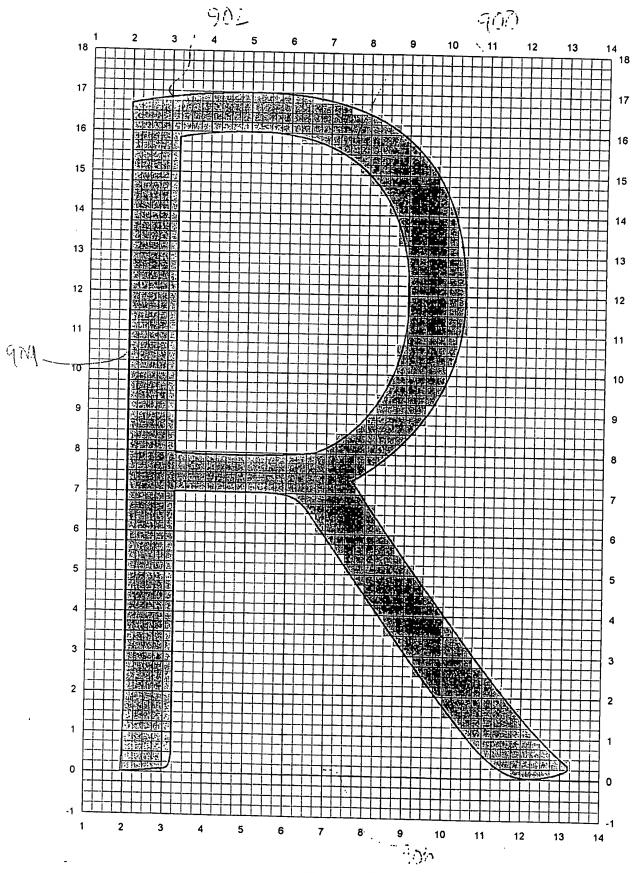
Font Type: TrueType Gray Scale 8変 第2

Г							_	- -					_	_	-									
T \$45.01	Adington	Volue	(1/8+hc)	3	0 0	0 0	0 0	0 0	3	2	7	2	2	2	0	1		- -	1,			1		0
II in tin a	Policy	4 UIICY		Anisotronic	Anicotropic	Anisotropic	Anisotronic	Amisonopic	Amsouropic	Anisotropic	Apigotropic	Anisotuni	Amsouropic	Anisotropic	Anisotropic	Anisotropic	Anisotropic	+						
^	Carro	(v/n)		0)							0	0	0	0					1	0	0	0	0
×	Carry	Amt. Amt. (v/n) (v/n)			-	1 -	1			-1-		_		1	-		. _	1-	1 -	1		1	1	1
>	Offset	Amt		0	0		0					D	0	0	0	0					0	0	0	. 0
×	Offset	Amt.		0	0	0	0) (0	0	0	0	0						0	0
, X		D		4	4	4	4	4	4	1 4		4	4	4	4	4	4	4				4	4	4
X	Align.)		-	1	1	1	-	-		-	٠,	-	1	1	1	-			-	1	1	1	
Hint	Grid	Ratio		8	∞	8	∞	∞	~	0 00) «	0 0	o	∞	8	∞	∞	∞	~) «		× l	∞	8
X	Grid	Ratio		2	2	2	2	2	2	2	0	1 0	7	2	2	2	2	2	2	10	1 0	7	2	2
×	Grid	Ratio		8	∞	∞	∞	∞	8	∞	~	0	0	×	8	8	8	∞	8	~			× ·	∞ ∞
Scaled	Stem	Width	(1/8ths)	0	1	2	3	4	5	9	7	~	0	6	10	11	12	13	14	15	16	17		18

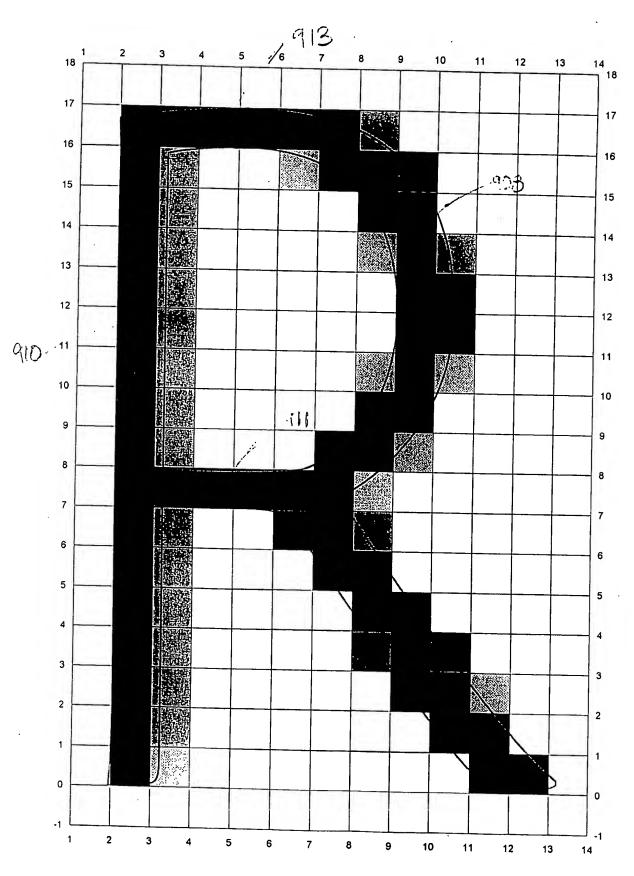
Font Type: TrueType Sub Axel Rendering

Craled	>	1		,							
Stem	Grid	× Cris	Hint	×	>	×	>	X	X	Hinting	Initial
Width	Ratio	Ratio	Ratio	Augn.	Align.	Offset Amt.	Offset Carry Carry Amt. (v/n)	Carry (v/n)	(v/n)	Policy	Adjustment
I/oths)								`			(1/Ct)
	9	9	9	1	9	C	0	-			(SULO/T)
	9	9	9	 -	, y		> 0	٠,	>	Anisotropic	3
	9	1	2			>			0	Anisotropic	3
	>		0	1	9	0	0	_	0	Anicotronic	2
	9	9	9	1	9	C	0	-	,	A	
	9	9	9	-	9			1))	Anisotropic	3
	9	1	, l	, -				_	0	Anisotropic	3
				_	0	0	0	1	0	Anisotronic	2
	0	9	9	_	9	0		-		210	1
	9	9	9	-	1			1,		Anisotropic	2
	9	, ,	Ž	1 -					0	Anisotropic	2
	2			_ ,	0		0	1	0	Anisotropic	2
))		0	_	9	0	0	1	0	Ц.	2
_	9	<u> </u>	9	1	9	0			,	_	7
	9	9	9		, ,			- ,		-	2
-	9	9	2	1		+				Anisotropic	
-	2	,		-			0	_	0	Anisotropic 1	
			٥	_	9		0		c	Anicotronia	
							-	-	_		_

Matter No.: 07844-636001 Page 24 of 34

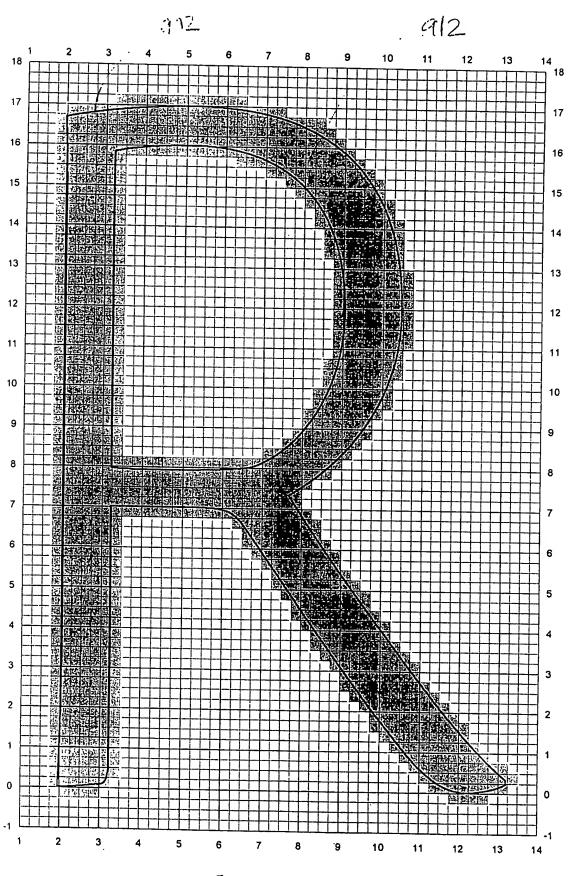


F16 9A

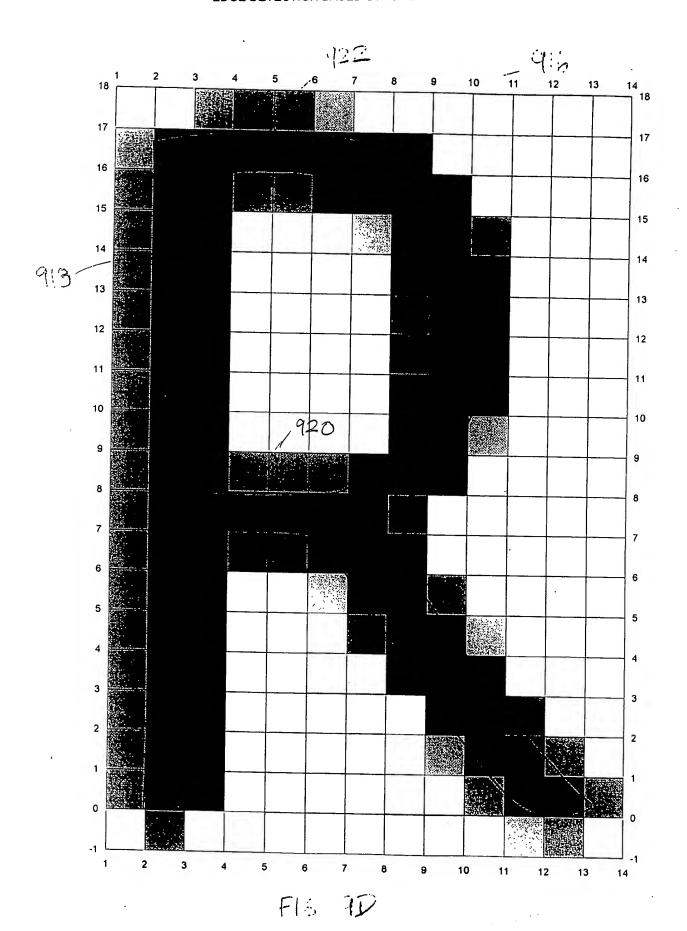


F16. 9E

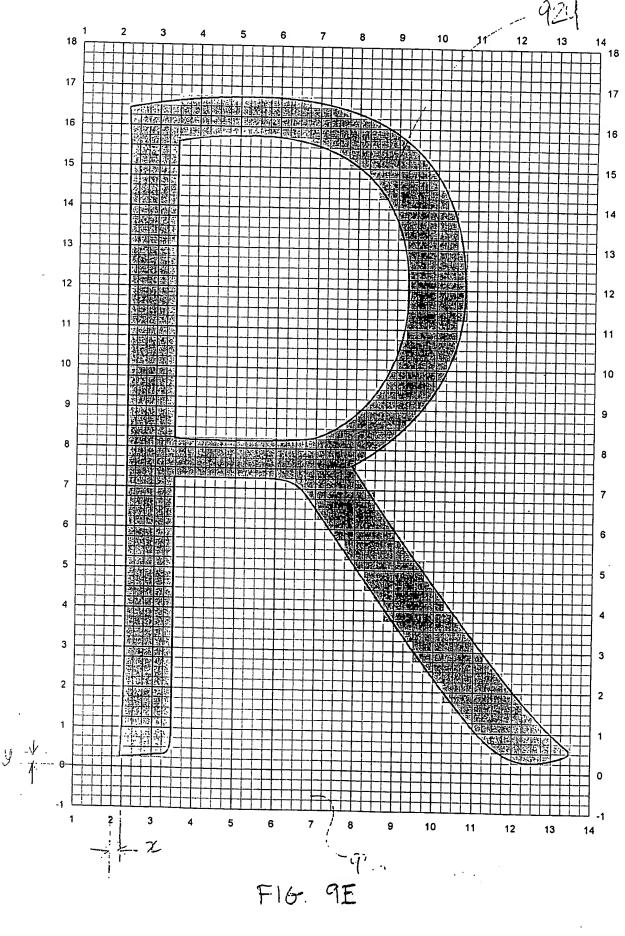
Matter No.: 07844-636001



FIE 10

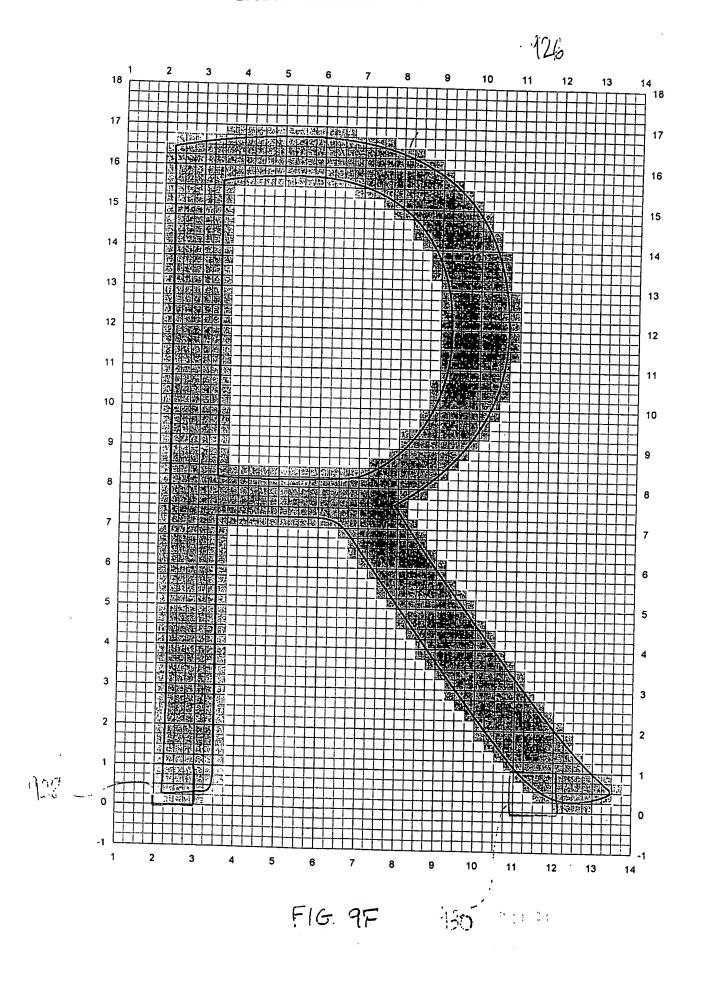


EDGE DETECTION BASED STROKE ADJUSTMENT



Page 29 of 34

Matter No.: 07844-636001



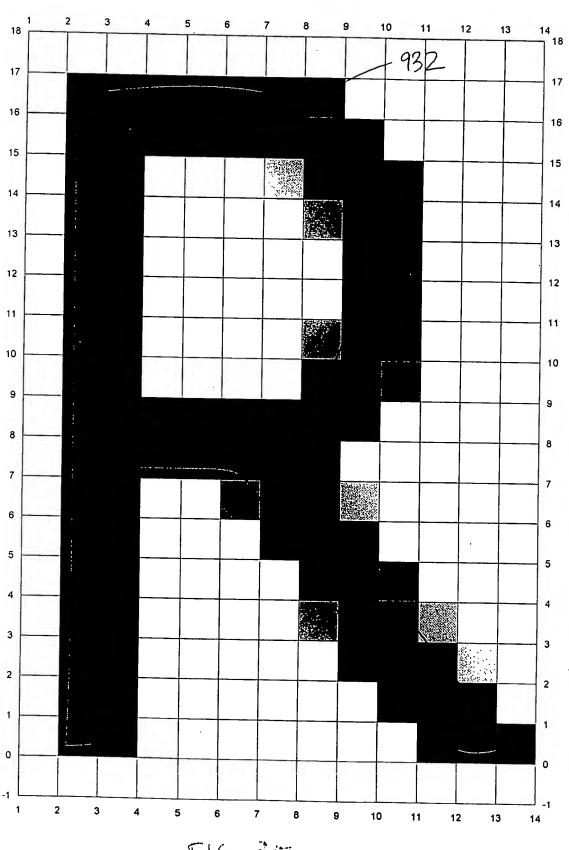
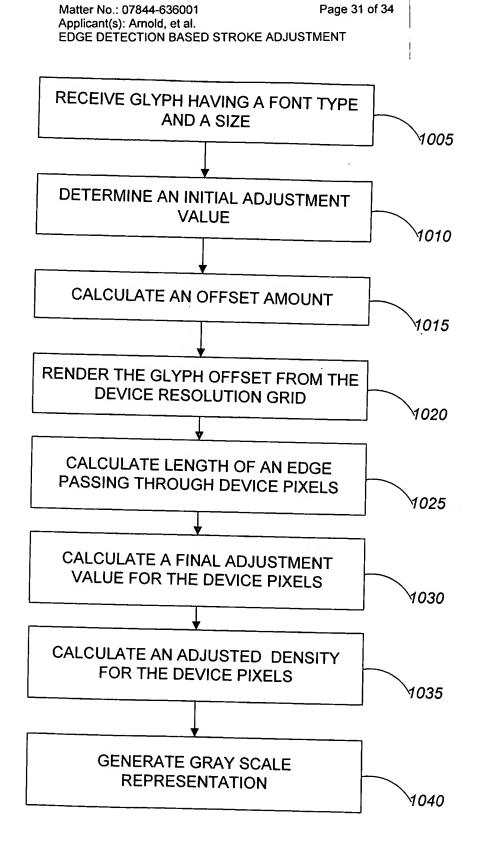
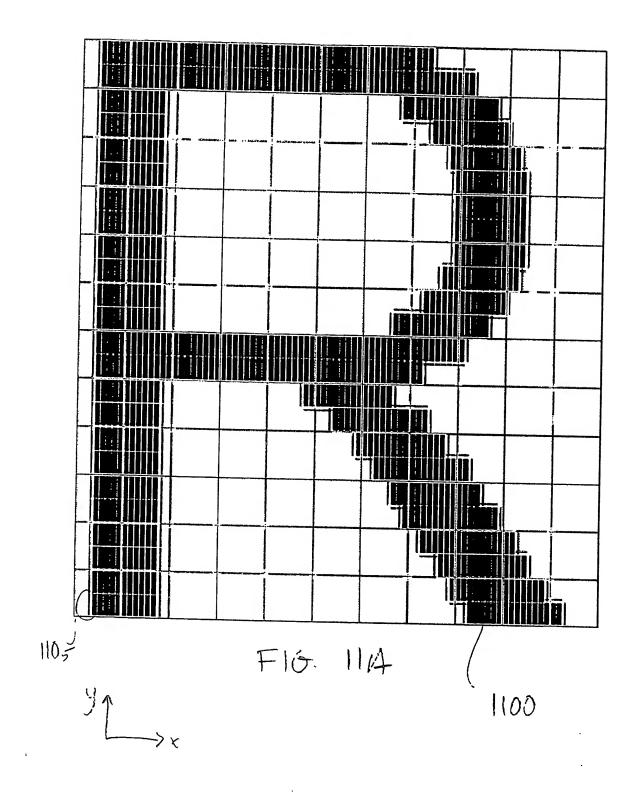


FIG. 15



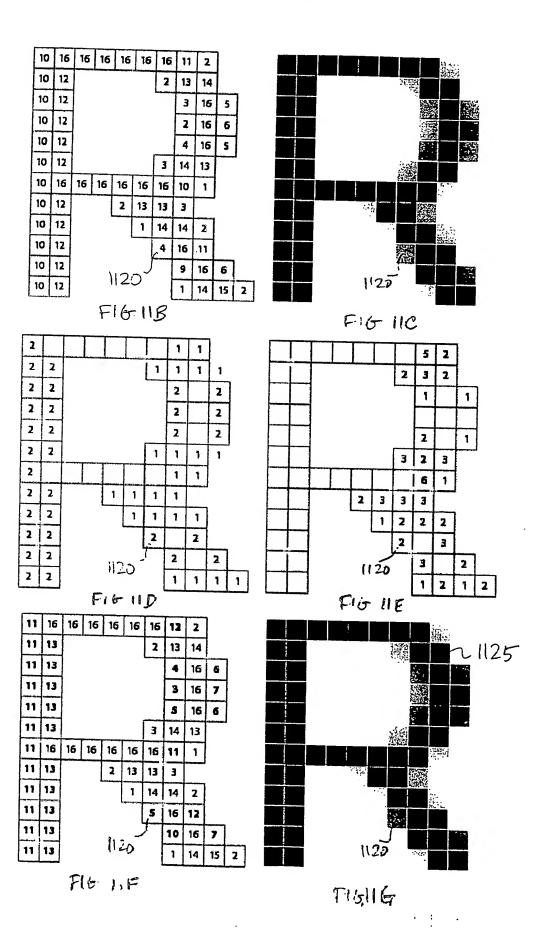


Matter No.: 07844-636001

Applicant(s): Arnold, et al.

EDGE DETECTION BASED STROKE ADJUSTMENT

Page 33 of 34



12	ID								
								12/	1205
22-12-2					Asymmetric	Darker	ning	- /	
Scaled Stem Width (16ths)	Grid Ratio		(16ths per side)	1	Low Density Darkening Amount (16ths)	High Density	High Density Darkening Amount (16ths)	Phase Difference	Rasterized Stem Width (bold lines) and Darkening Amount (light lines), showing both phases
1-4	4	0	4			1		1/4	
5,6	8	0	4	0	2	24	6	3/8	
7.8	8	0	4	0	2	32	6	1/4	
9,10	8	0	4	0	2	40	6	1/8	
11,12	4	1	4					1/4	
13,14	8	1	3	0	4	56	2	1/4	
15,16	8	1	3	8	4	56	2	3/8	1
17,18	8	1 1	2	i		:		3/8	
19,20	8	1	2					1/2	
21,22	8	1	2	i	·			3/8	
23,24	8	1	2					1/4	
25	8	1 i	2					1/8	
26-28	4	0 i	1	0	;	12	2	1/8	
29,30	8	1	1 1	0	2	56	0	1/8	
31,32	8	1	1	8	0 ;	56	2	1/8	
33	8	1	1	16	0	56	2	1/4	
34-37	4	0 j	0 1					1/4	

FIGURE 12